

Missouri Department of Natural Resources  
ENVIRONMENTAL  
EMERGENCY  
RESPONSE



FY '06 Incident Summary  
Report

## **FY'06 Environmental Emergency Response Incident Summary Report**

The FY'06 Incident Summary Report of Environmental Emergency Response (EER) activities was generated using data taken by the EER Duty Officers that receive incident information from the department's 24-hour spill notification telephone line (573-634-2436). This information is then entered into the Missouri Environmental Emergency Response Tracking System (MEERTS II) database, which may be viewed on-line at <http://www.dnr.mo.gov/meerts/index>.

The following Table identifies the number of incidents reported to the department's 24-hour spill notification telephone line segregated by department Regional Offices.

<b>Regional Office</b>	<b>KCRO</b>	<b>SLRO</b>	<b>SWRO</b>	<b>NERO</b>	<b>SERO</b>	<b>Total</b>
<b>Total Incidents*</b>	<b>418</b>	<b>365</b>	<b>332</b>	<b>250</b>	<b>242</b>	<b>1607</b>

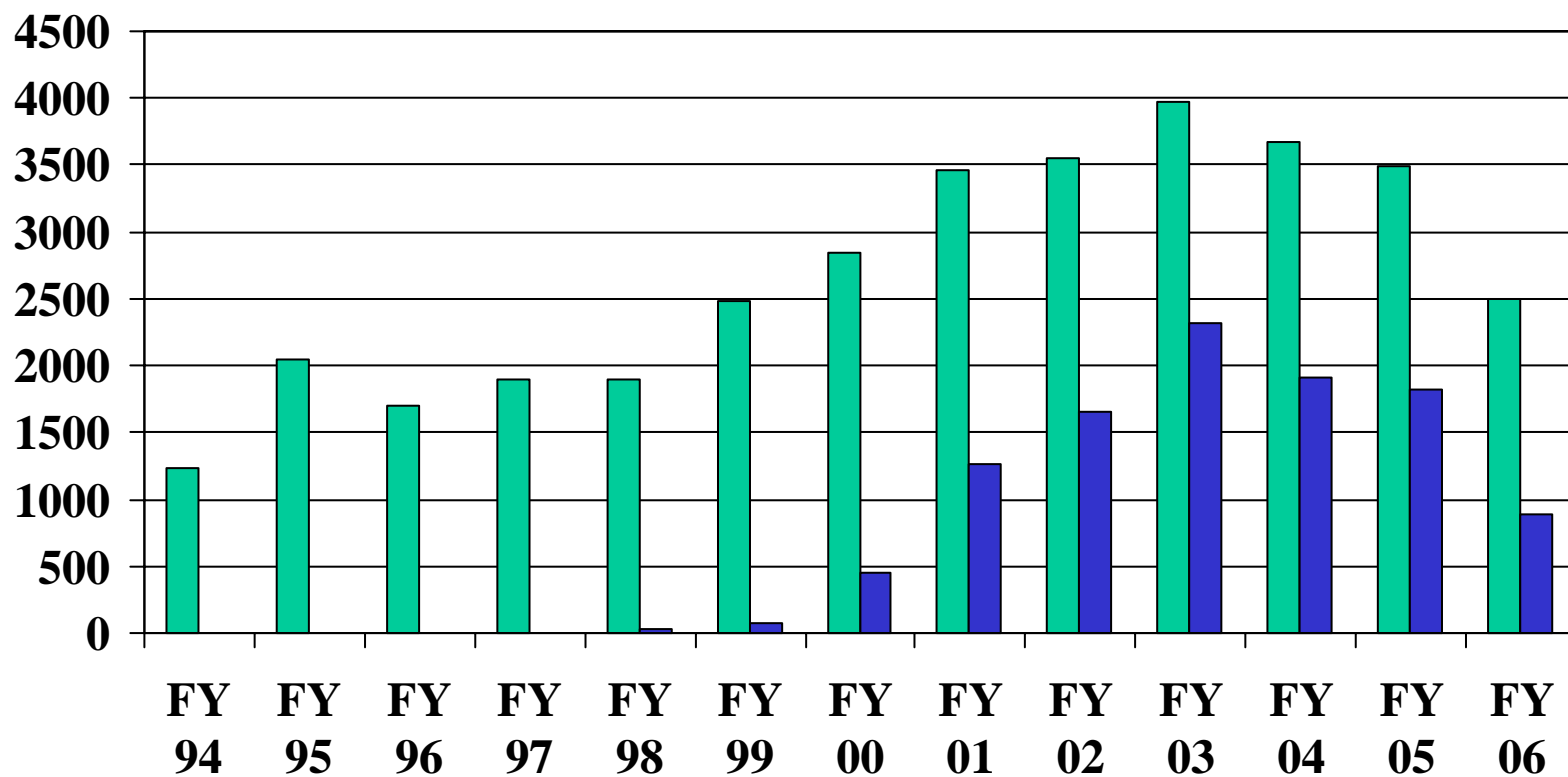
**\* Excludes Drug Lab Reports**

The first several pages of the report include a variety of graphs and charts that further break down the FY'06 data.

Near the middle of the Incident Summary Report are two maps of the State of Missouri. One map notes the EER Incidents Reported for FY'06 utilizing latitude/longitude coordinates from various Internet sources. The second map indicates On Site Responses to EER Incidents for FY'06. Many of the latitude/longitude coordinates used to generate the map were obtained from handheld GPS units used by EER State On-Scene Coordinators near the point of the incident.

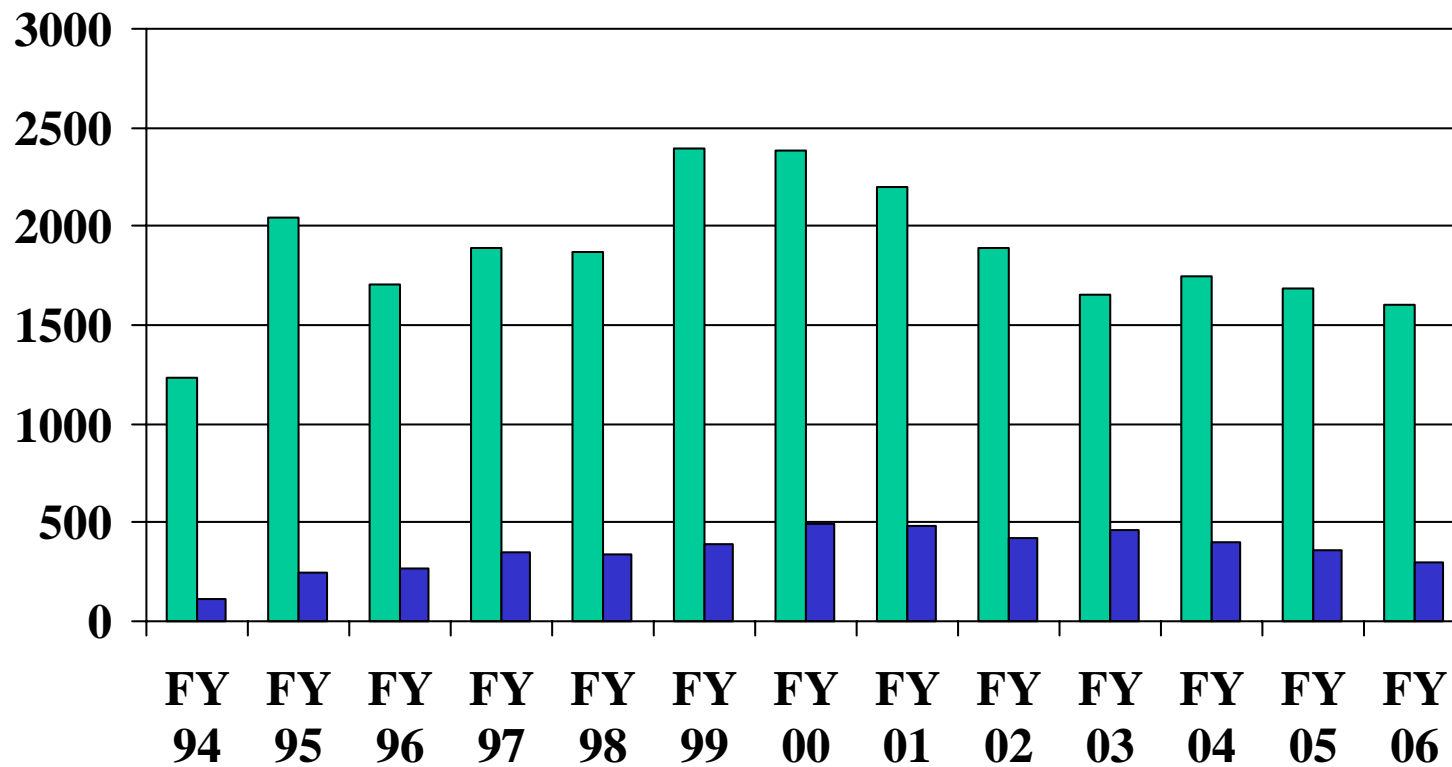
Following the two maps, the FY'06 Report contains photographs of EER Incidents from each region, EER Cost Recovery information, and MEERTS II report numbers of three specific categories that include "Incident Cause", "Property Use", and "Materials".

## Total Number of Incident Reports Taken Via the 24-hour Emergency Line (573) 634-2436



The green bar indicates total incident reports taken (2493 in FY '06) including drug lab material reports received. The blue bar indicates the drug lab material reports received (888 in FY '06). Total number of incident reports decreased in FY 06 due to the decrease of drug lab material reports as the result of Senate Bills 10 and 27 (restricting access to pseudoephedrine cold medicine).

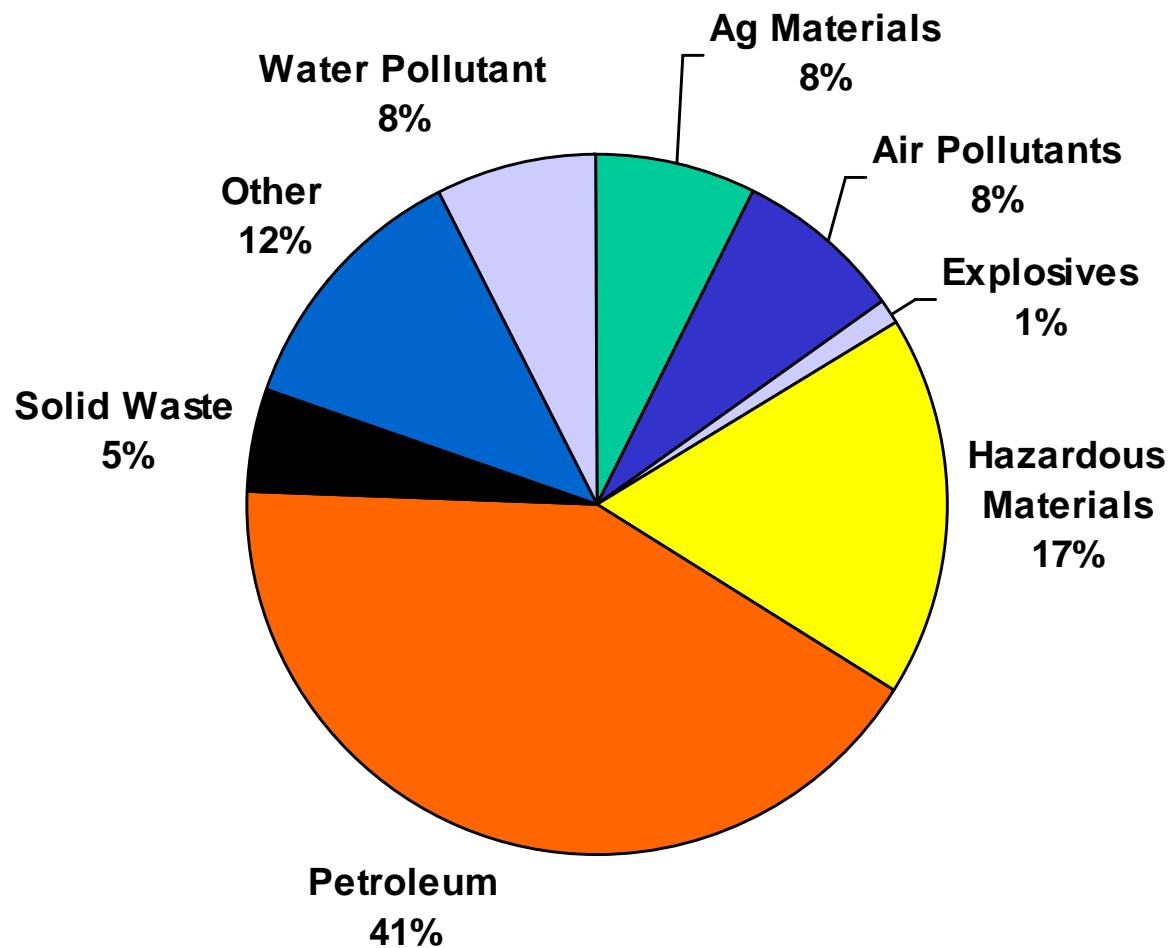
## Number of On-Scene Responses Compared to the Number of Incidents Received



The green bar indicates total incident reports taken (1607 in FY '06) excluding drug lab material reports received. The blue bar indicates the total number of EER On-Scene Responses (299 in FY '06).

# FY '06

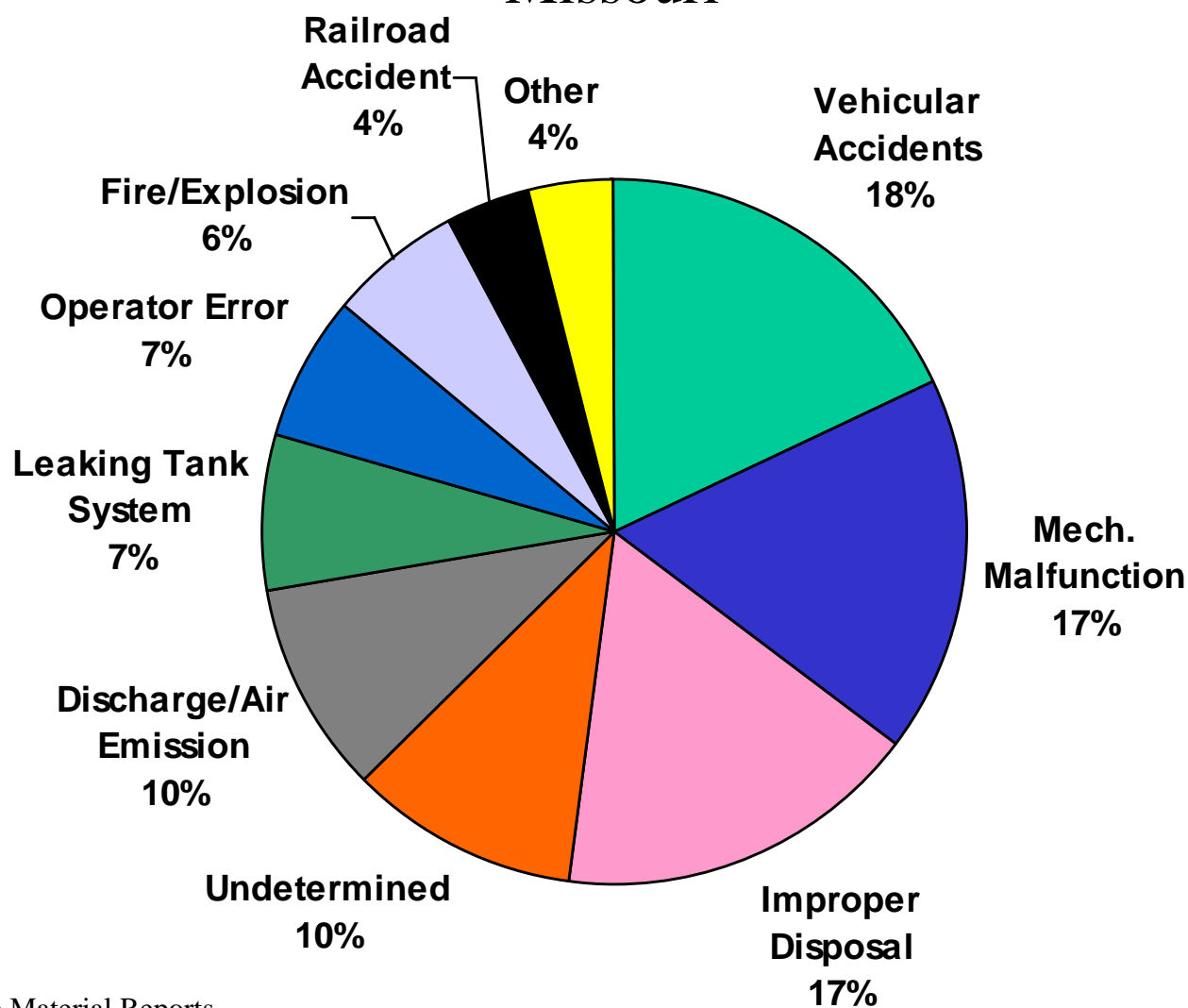
## Materials Released Throughout the State of Missouri



Excludes Drug Lab Material Reports

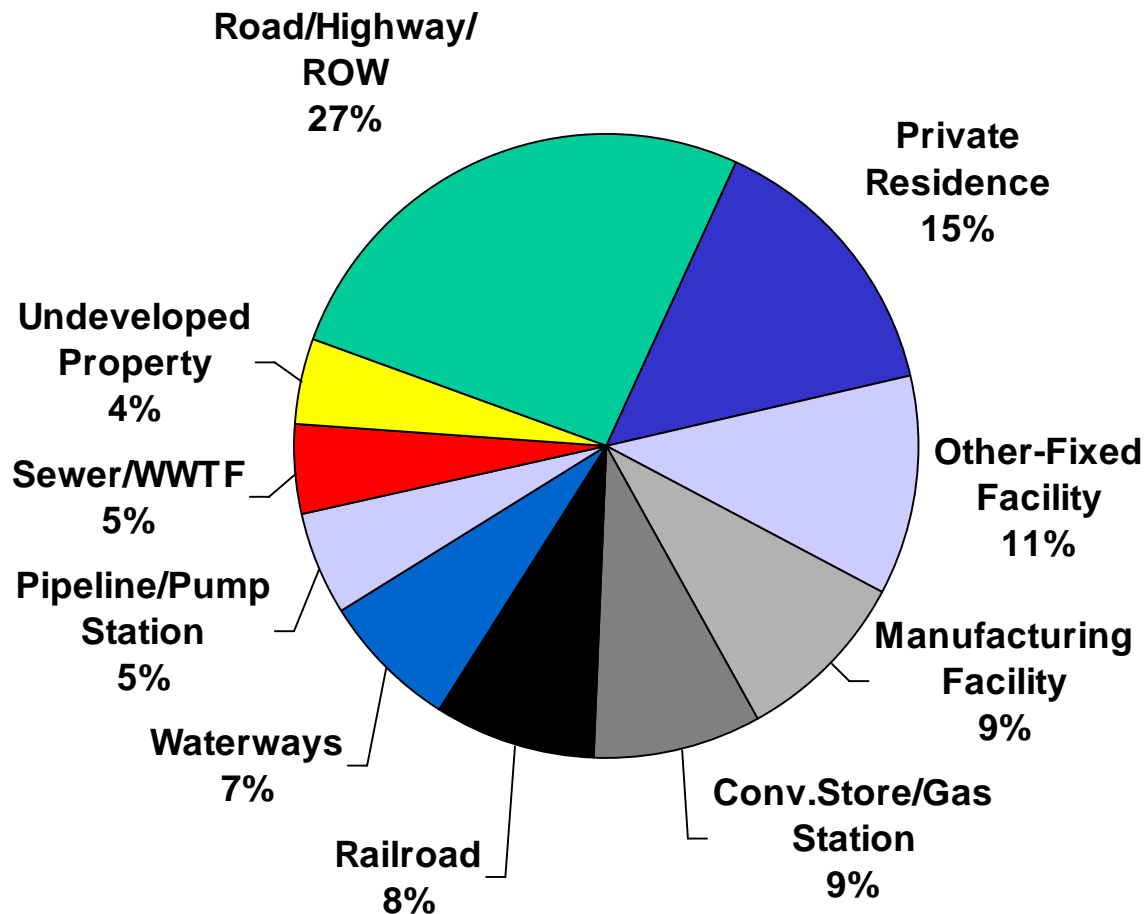
See Materials List at the end of the report for types of released materials in each category noted on the pie chart.

FY '06  
Top 10 Incident Causes of Releases Throughout the State of  
Missouri



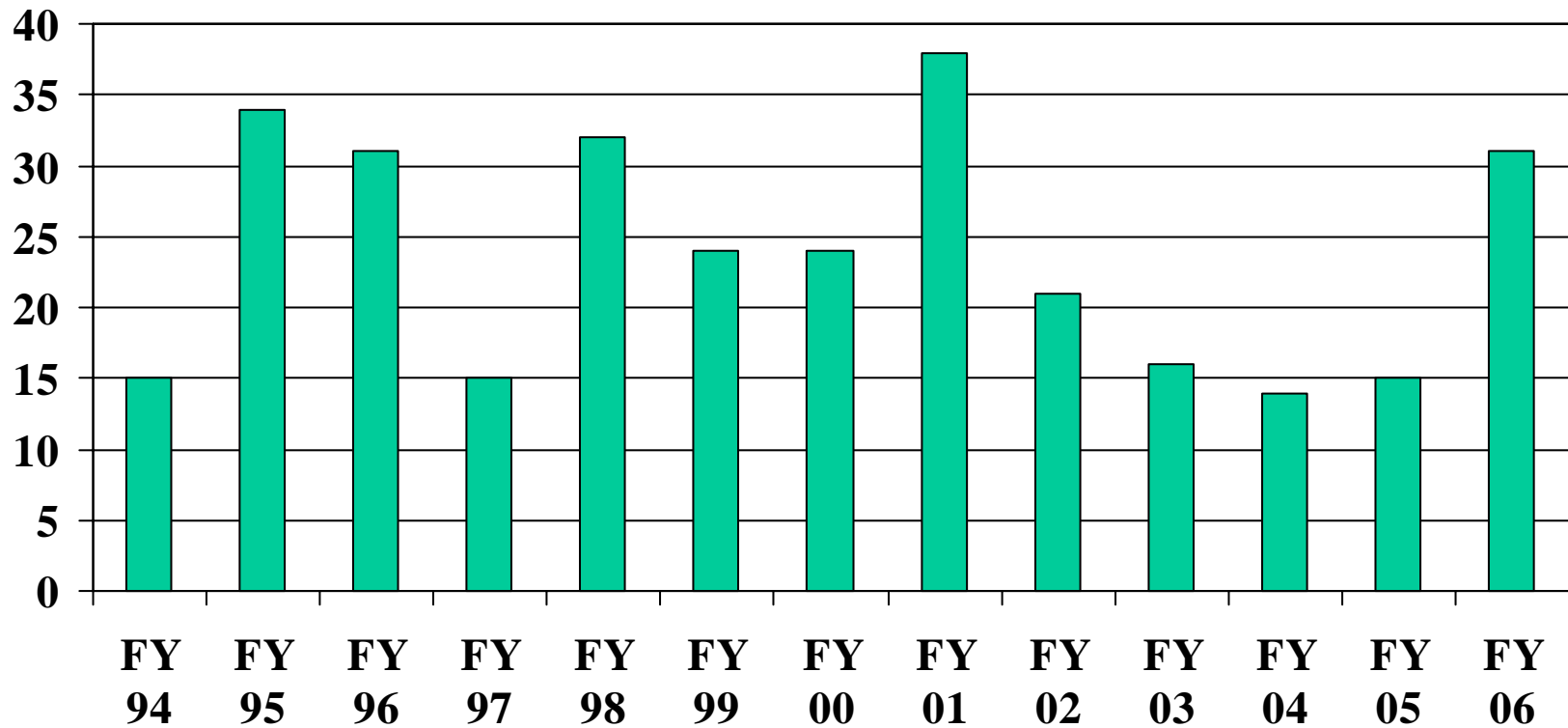
Excludes Drug Lab Material Reports  
See Code Sheet at the end of the report for full list of Incident Causes for releases.

FY '06  
Top 10 Property Use/Location of Releases Throughout the  
State of Missouri



Excludes Drug Lab Material Reports  
See Code Sheet at the end of the report for full list of Property Use locations.

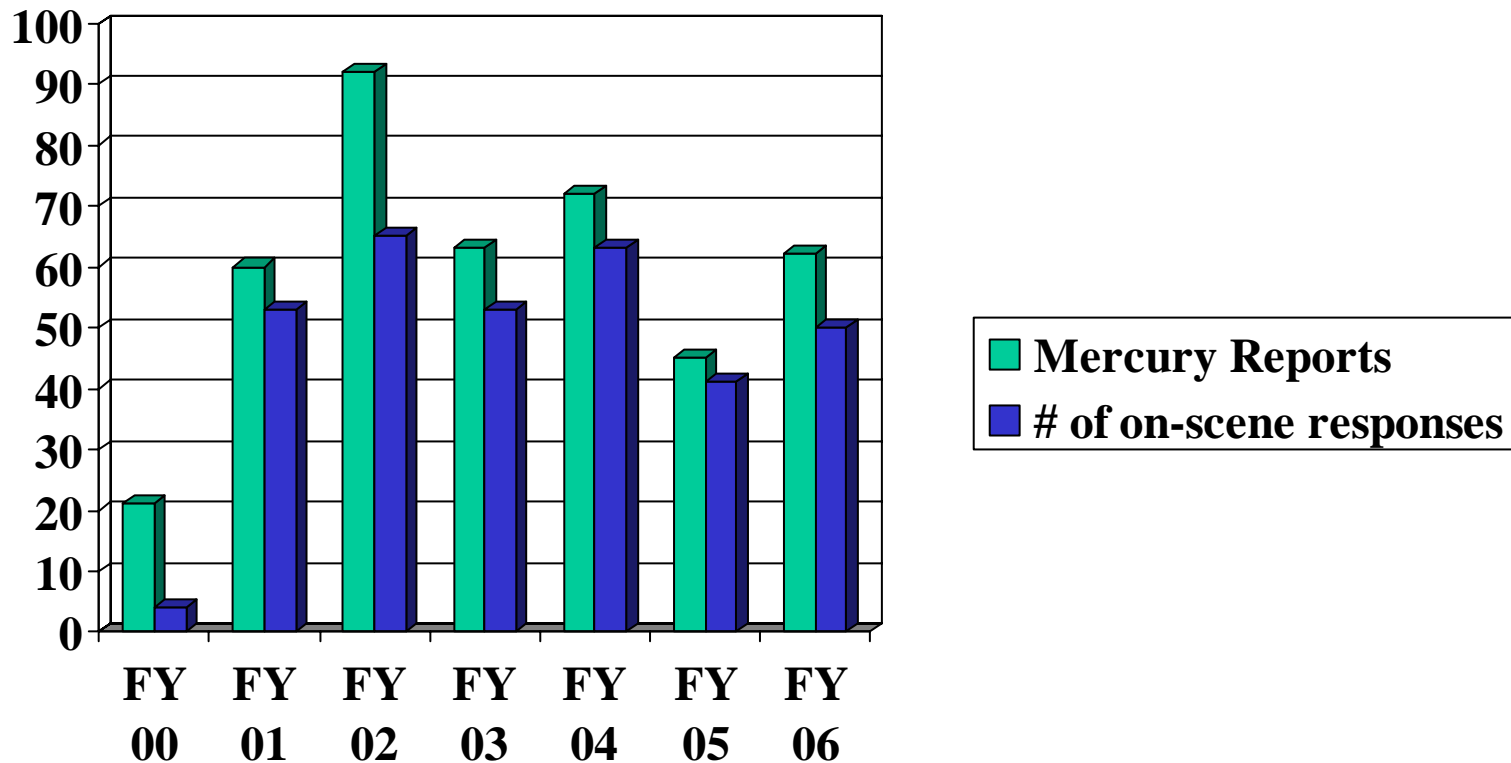
## Number of Fish Kill Incidents Reported



Total number of reported fish kills in FY '06 was 31. Increase of fish kill reports compared to the 4 previous years may be due to improved data tracking of fish kill reports with MEERTS II during FY '06.

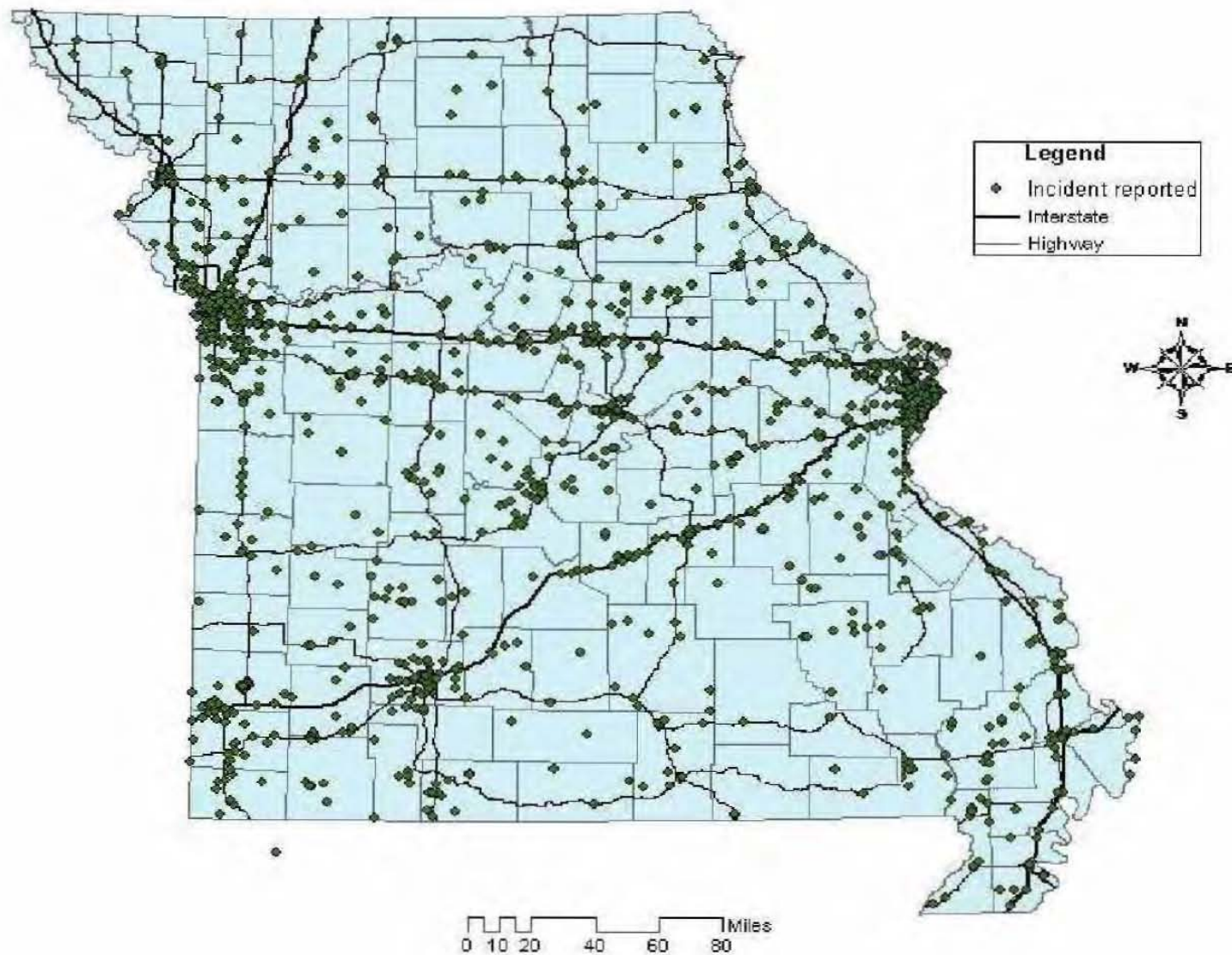


## Mercury Reports/Responses FY '00 - FY '06

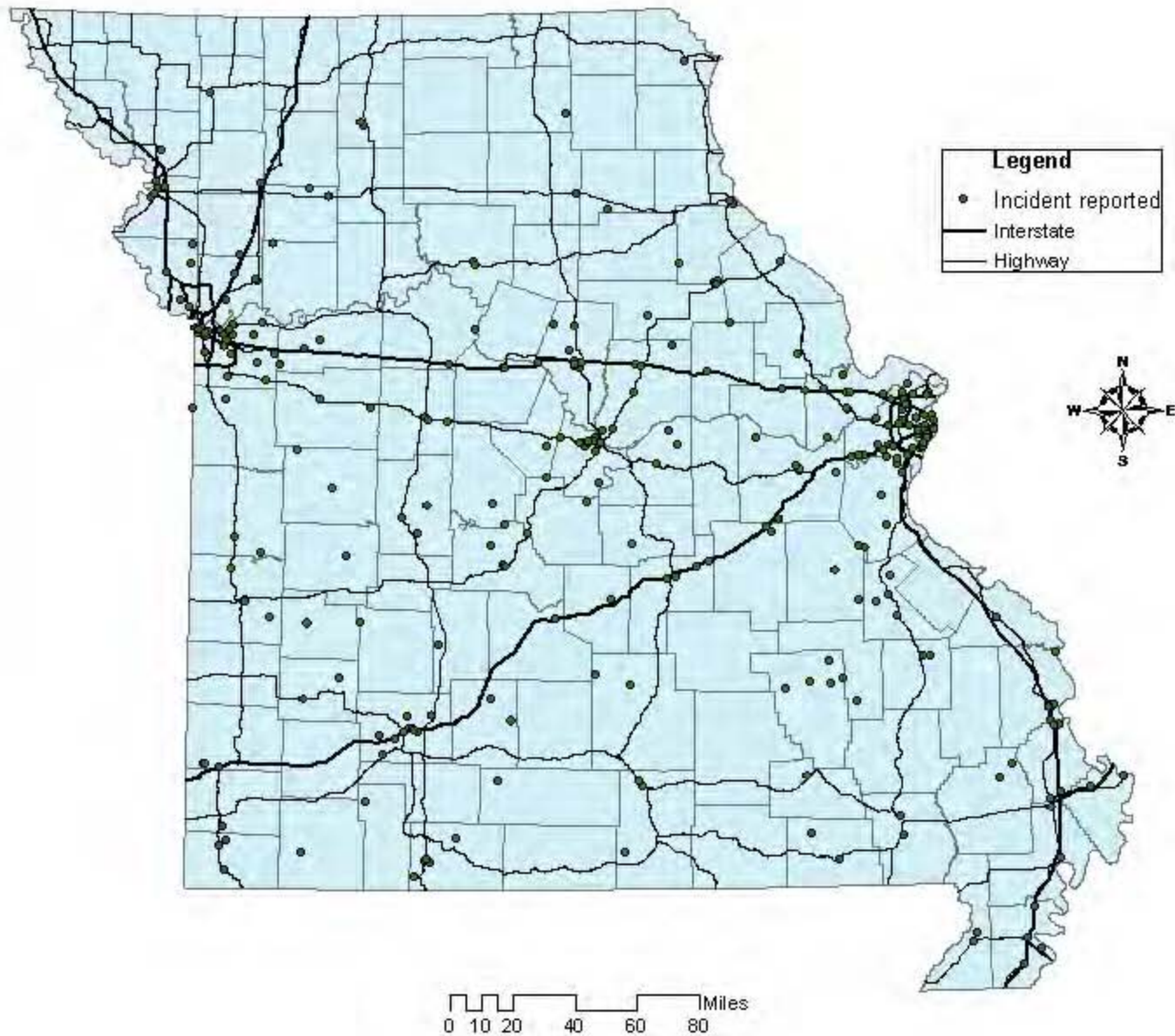


The increase in the number of mercury reports from FY '00 to FY '01 is primarily due to a change in procedure where an EER Incident Report is completed for all mercury related calls. The majority of mercury reports include releases from broken thermostat switches, broken household and lab thermometers, and requests from private citizens to recycle elemental mercury found in containers at residences. On-Scene responses include air monitoring, small quantity cleanups, and collection of elemental mercury and mercury containing devices for recycling. In FY '06, 62 Mercury Reports were received and 50 on-scene responses were made.

## FY '06 EER Incidents Reported



# FY '06 EER Incidents On Site Responses





**Intermodal tank containing epoxy polymer.  
Macon County**



**Gasoline release from an above ground storage tank site.  
Saline County**





**Release of diesel fuel from a train derailment.  
St. Francois County**



**Canola oil release into a lake.  
Jackson County**





# **Upper Taum Sauk Reservoir Dam Break Reynolds County**

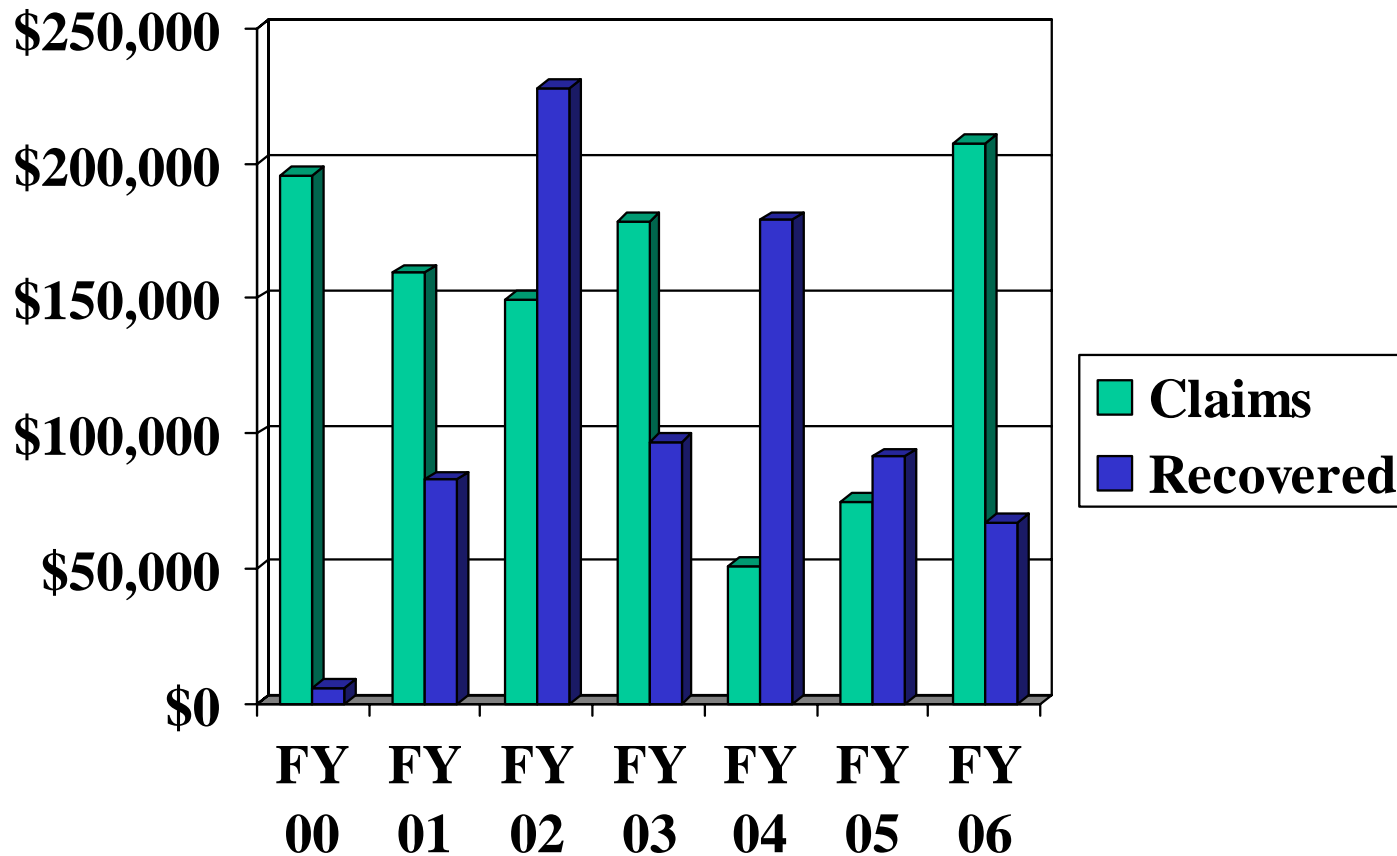




**Tanker truck of gasoline.  
Greene County**



# Cost Recovery Claims versus Recovered Costs



The claim amount for FY '06 is \$207,616.37. The recovered amount for FY '06 is \$67,296.37. One FY '06 Claim (Oil Pollution Act Fund Claim) for \$119,884.76 is pending.

## INCIDENT CAUSE

<b><u>Incident Cause</u></b>	<b><u>Number of Reports</u></b>
Aircraft Accident	2
01 Commercial	
02 Private	
Blockage/Bypass	38
Confiscated Drug Lab Mat.	886
Discharge/Air Emission	138
Earthquake	0
Fire/Explosion	85
Homeland Security Threat	4
Improper Disposal	240
Intentional Act/Vandalism	20
(i.e. 3 <sup>rd</sup> party act)	
Leaking Tank System	101
AST	
UST	
Both	
Mech. Malfunction/Failure	241
Mercury Pickup	44
Operator Error	96
Overfill	
Open Valve	
Other	
Ordnance Destroyed	20
Other	54
Pipeline Release	12
Railroad Accident	57
School Lab Chemicals	5
Seepage/Leachate	9
Unknown/Undetermined	148
Vehicular Accident	257
Commercial	
Private	
Watercraft Accident	6
Commercial	
Private	
Weather Related	30

## PROPERTY USE

(Excludes Drug Lab Reports)

<b><u>Property Use</u></b>	<b><u>Number of Reports</u></b>
Abandoned Property	14
Agricultural Facility (Non CAFO)	25
Ag/Coop (e.g. farm supply)	
Farming Operation (Non CAFO)	
Unknown/Other	
Aircraft/Airport	14
Bulk Chemical Facility	4
Bulk Petroleum Facility	9
Concentrated Animal Feeding Operation	19
Hog	
Poultry	
Cattle	
Unknown/Other	
Conv Store/Gas Station	114
Distribution Facility (e.g. warehouse)	13
Educational Facility	27
Health Care Facility	16
Manufacturing Facility	125
Military Facility	14
Mining Facility	7
Other - Fixed Facility	150
Pipeline/Pump Station	71
Power Plant	14
Private Residence	195
Public Property	27
(e.g. National Forest, State Park)	
Railroad/Railyard	111
Retail Facility	27
(e.g. retail store, <u>not</u> a gas station)	
Road/Highway/ROW	353
Salvage/Junk Yard	8
Sewer/WWTF	63
Solid Waste Facility	2
Transformer/Substation	8
Undeveloped Property	58
(privately-owned non-farm open land)	
Water Line/Water Treatment Plant	18
Water/Waterway/Marina	99
Private Watercraft	
Commercial Watercraft	
Marina	
Unknown/Other (e.g. sheen)	
Dry Cleaners	2
Current	
Former	

**MATERIALS**  
(Excludes Drug Lab Reports)

<b><u>Materials</u></b>	<b><u>Number of Reports</u></b>
<b>Agriculture</b>	<b>128</b>
Pesticide	
Fertilizer ( <u>not</u> Ammonia)	
Anhydrous Ammonia	
Animal Waste	
(e.g. CAFO spills, chicken parts, dead animals)	
Processed Oil	
(e.g. vegetable, cottonseed, soybean)	
Other Agriculture Product	
(e.g. corn, animal feed, etc.)	
Foodstuff	
(e.g. milk, eggs, etc.)	
<b>Air Pollutant</b>	<b>127</b>
Asbestos	
Other Air Pollutant	
(e.g. smoke plume, strong odor, nitrogen dioxide, etc.)	
Freon	
Chlorine	
<b>Clandestine Drug Lab</b>	<b>888</b>
Drug Lab Materials	
<b>Explosives</b>	<b>22</b>
Explosive/Ordnance	
(e.g. 763 <sup>rd</sup> requests, MSHP requests)	
<b>Homeland Security</b>	<b>1</b>
Suspected Homeland Security Material	
<b>Petroleum/Oil</b>	<b>698</b>
Gasoline	
Diesel Fuel	
Crude Oil	
Waste Oil	
Natural Gas/Propane	
Aviation Fuel/Jet Fuel	
Other Petroleum Product	
(e.g. motor oil, coal)	
Fuel Oil/Heating Oil/Kerosene	

## Materials (Continued)

(Excludes Drug Lab Reports)

<b><u>Materials</u></b>	<b><u>Number of Reports</u></b>
<b>Hazardous Materials</b>	<b>290</b>
Ammonia – Industrial	
Chlorine	
Corrosive - Acid	
Corrosive – Base	
Ethylene Glycol	
Mercury	
Metals	
(e.g. lead concentrate, etc.)	
Other Inorganic Material	
(e.g. photographic chemicals, copper chloride, calcium chloride, ferric sulfate)	
Other Organic Material	
(e.g. chloroform, mercaptan, propylene glycol, formaldehyde, etc.)	
Organic Solvent	
(e.g. acetone, benzene, ethyl acetate, deicing fluid, etc.)	
Paint/Paint Waste	
PCB	
Radiological	
(e.g. Cesium 137, Callaway Nuclear Plant exercise, etc.)	
RCRA Hazardous Waste	
School Lab Chemicals	
<b>Solid Waste</b>	<b>82</b>
Solid Waste	
(e.g. shingles, sheet rock, junk, etc.)	
Medical/Infectious Waste	
Waste Tires	
<b>Undetermined/Other</b>	<b>203</b>
Unknown	
(e.g. yellow powder on highway, <u>not</u> Homeland Security issues)	
Fire Water Runoff	
No Material	
<b>Water Pollutant</b>	<b>126</b>
Domestic Sewage	
Other Water Pollutant	
(e.g. non CAFO land application runoff, algae bloom, silt)	
Dye Trace Material	